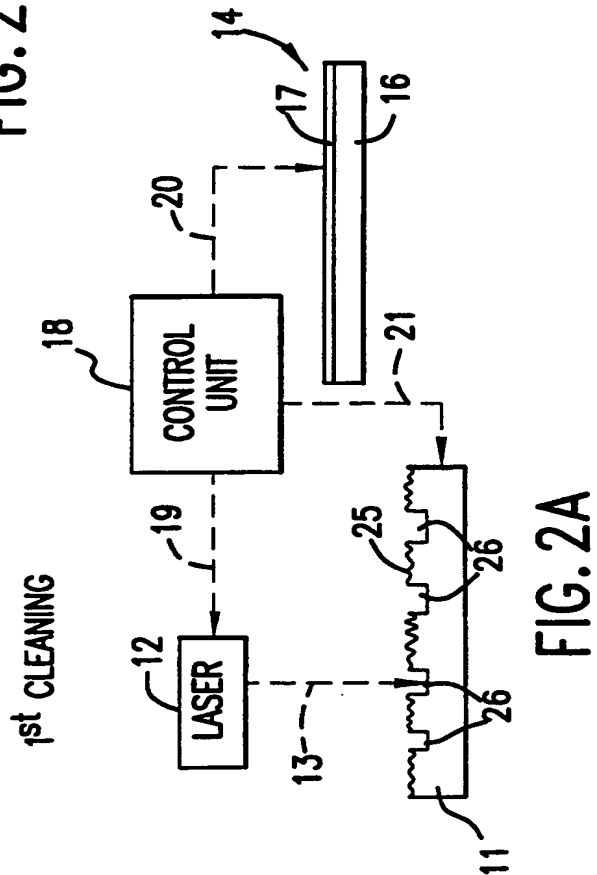
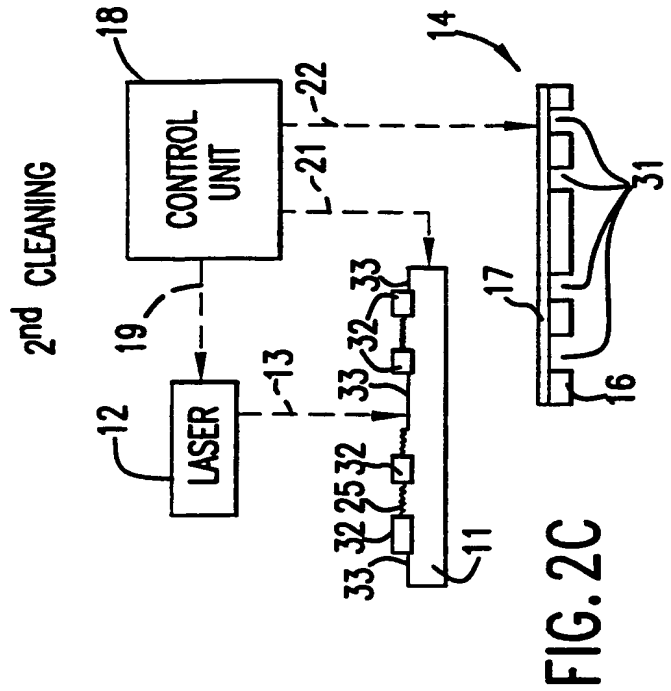
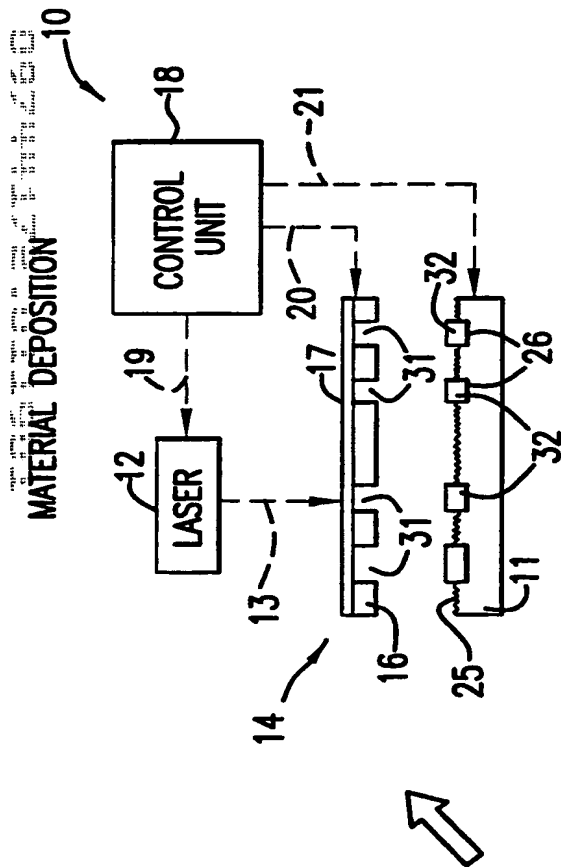
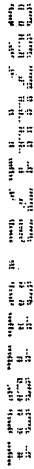


FIG.1





4/7

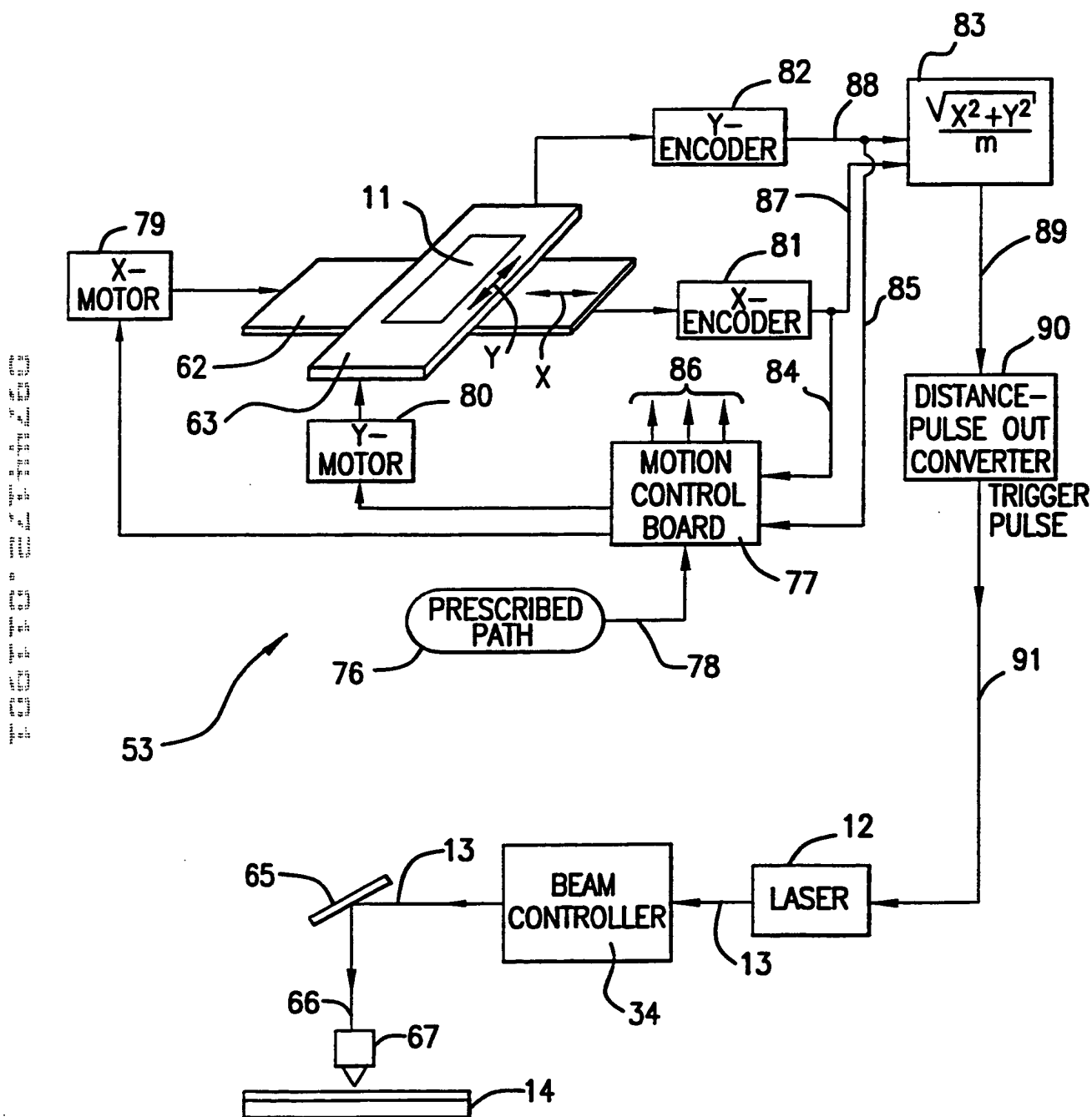


FIG.4

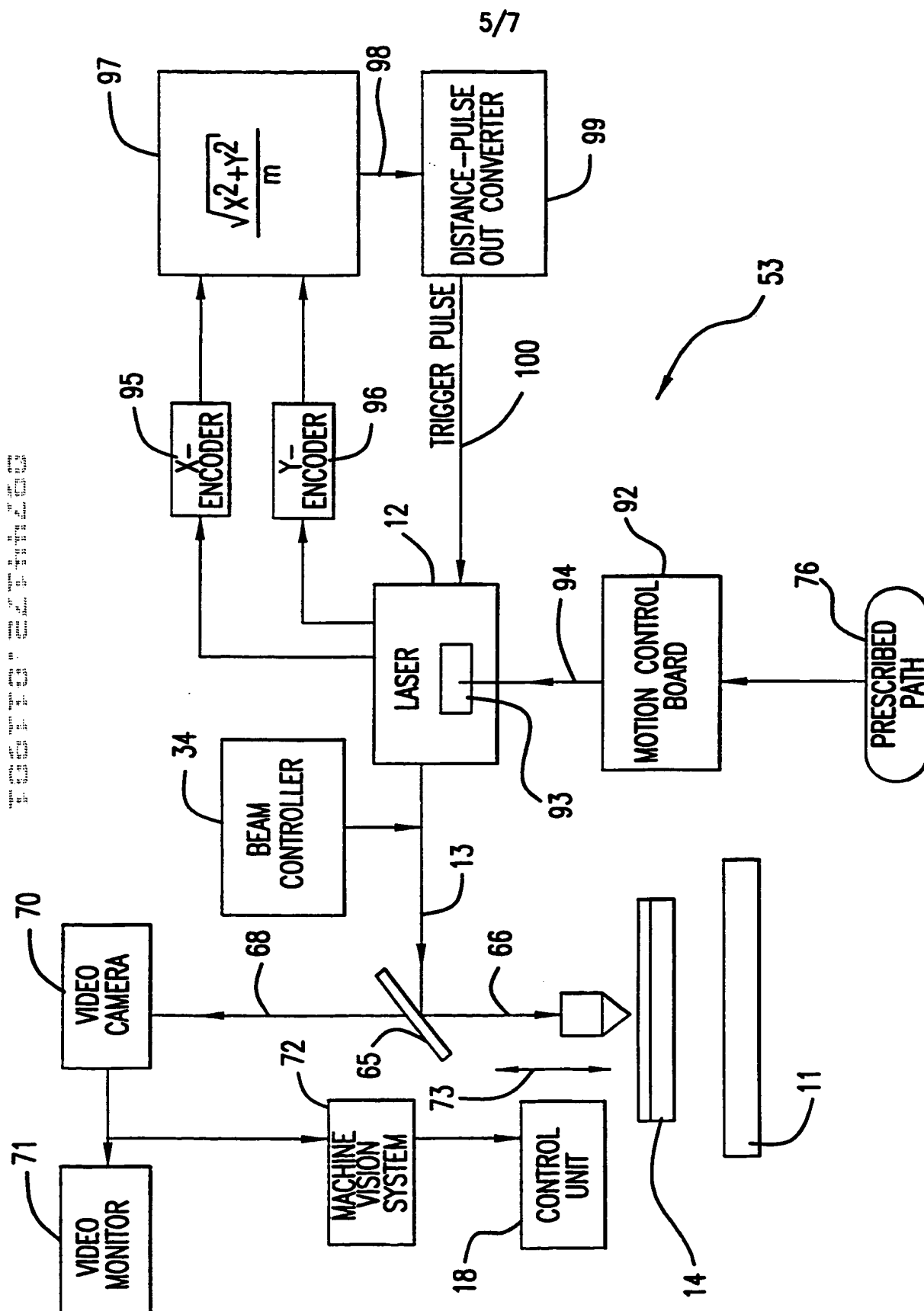


FIG. 5

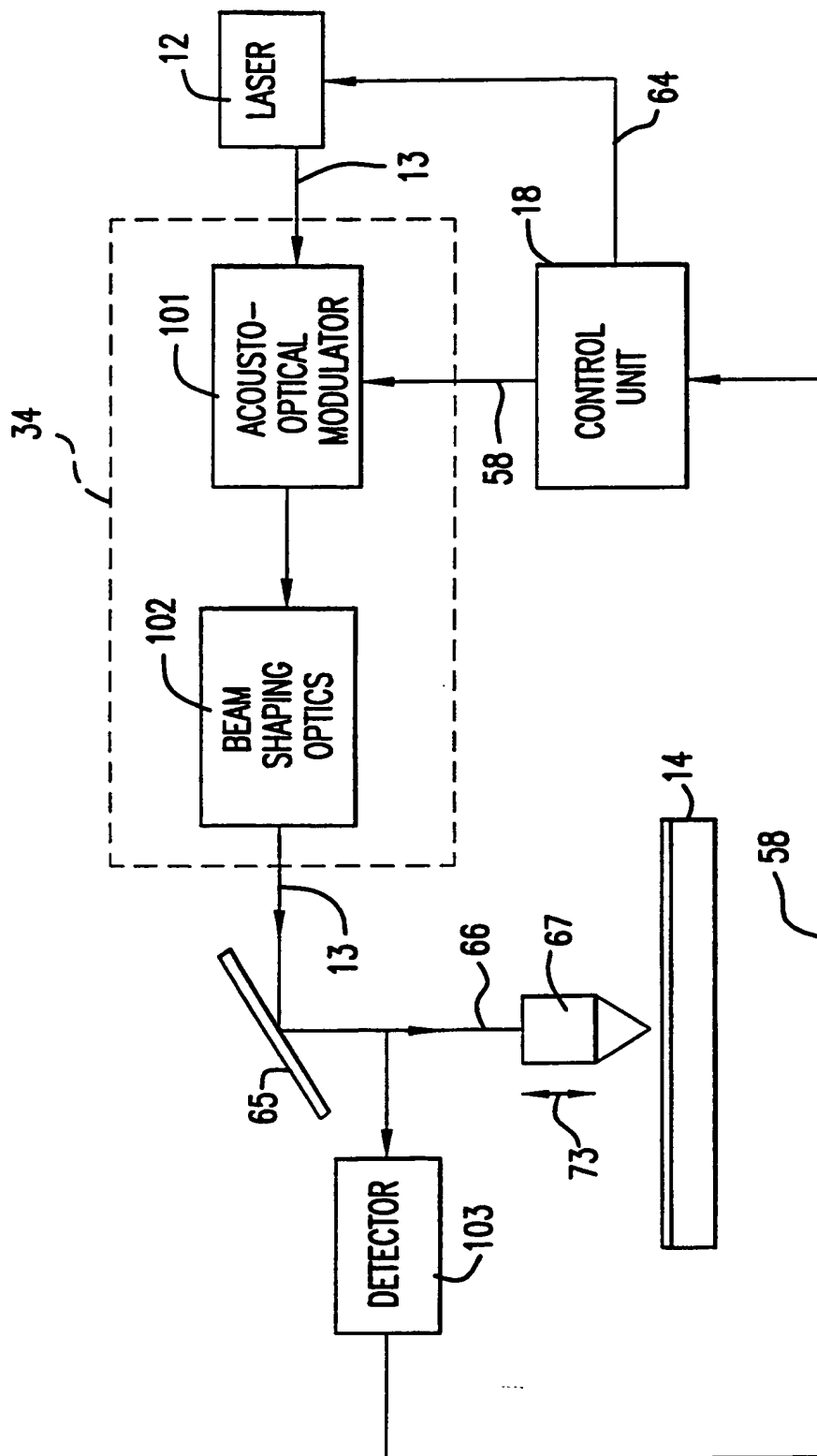


FIG. 6

7/7

FIG. 7 is a flowchart illustrating a process for material deposition or subtraction. The process begins with a pre-startup, alignment, registration, and positioning step (110). A decision is made (112) whether the mode is deposition or subtraction. If subtraction, material is removed from the beam path (114). Both paths lead to translating the substrate or beam along the desired pattern path (116). A decision is made (118) whether to fire the laser at the current location. If yes, a controlled-energy laser pulse is admitted (120), and the material carrier position is incremented (122) in deposition mode. If no, the process checks if all paths are complete (124). If yes, the procedure ends (126). If no, the process loops back to the laser firing decision (118).

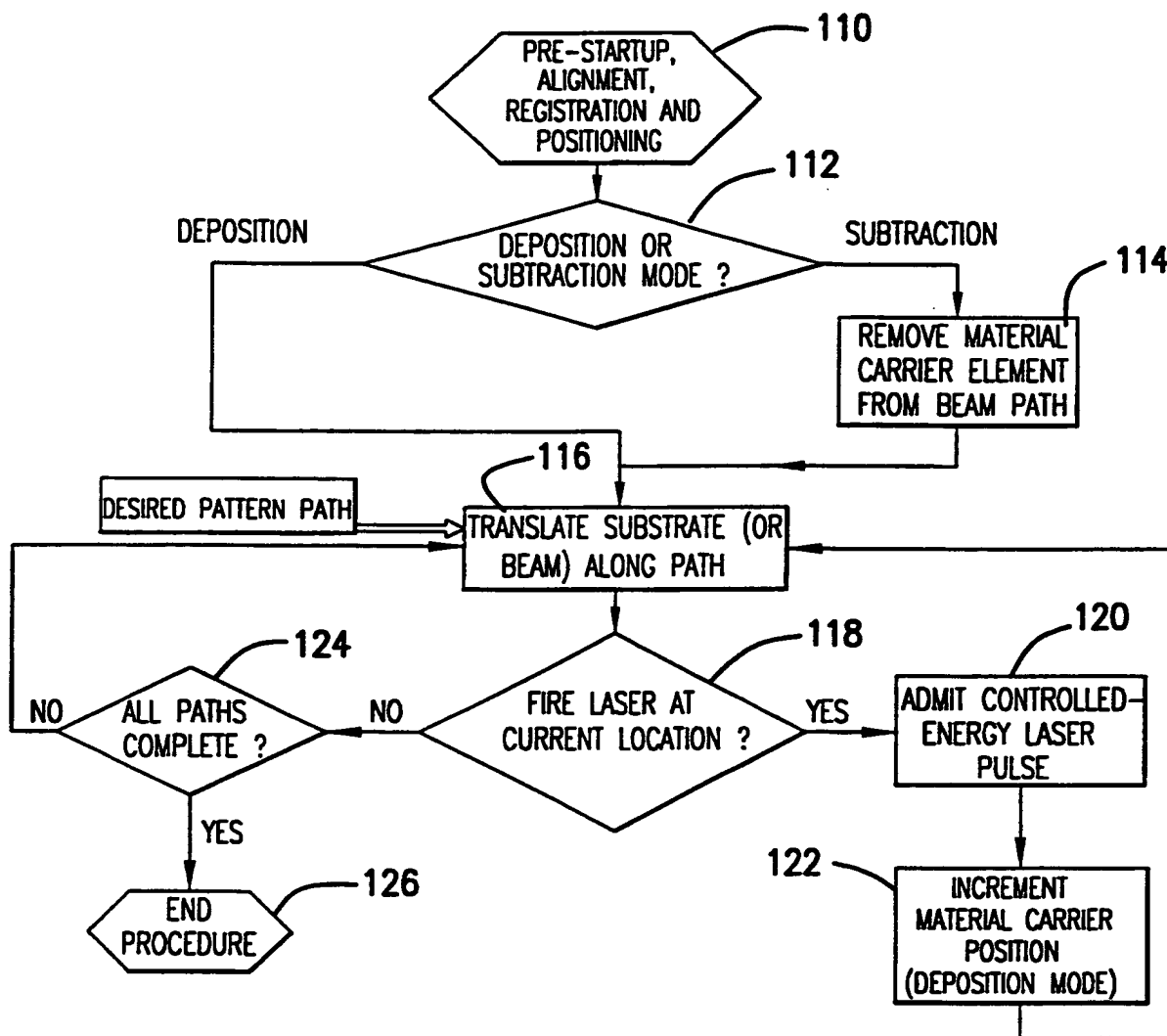


FIG.7